RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/519.328
Source:	P.G.
Date Processed by STIC:	2/24/06

ENTERED



 \mathtt{PCT}

RAW SEQUENCE LISTING DATE: 02/24/2006
PATENT APPLICATION: US/10/519,328 TIME: 12:28:44

Input Set : A:\SEQLIST.TXT

```
4 <110> APPLICANT: BOUGUELERET; Lydie
             NIKNEJAD; Anne
      7 <120> TITLE OF INVENTION: SECRETED PEPTIDES
     10 <130> FILE REFERENCE: 4-33619A/GEP
     12 <140> CURRENT APPLICATION NUMBER: 10/519,328
C--> 13 <141> CURRENT FILING DATE: 2004-12-23
     15 <150> PRIOR APPLICATION NUMBER: PCT/EP03/007069
     16 <151> PRIOR FILING DATE: 2003-07-02
     18 <150> PRIOR APPLICATION NUMBER: 60/393,840
     19 <151> PRIOR FILING DATE: 2002-07-02
     21 <160> NUMBER OF SEQ ID NOS: 10
     23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     25 <210> SEQ ID NO: 1
     26 <211> LENGTH: 1821
    27 <212> TYPE: PRT
     28 <213> ORGANISM: Homo sapiens
    30 <220> FEATURE:
     31 <221> NAME/KEY: PROPEP
     32 <222> LOCATION: (1)...(1821)
    33 <223> OTHER INFORMATION: Latent transforming growth factor-beta-binding
        protein precursor 2
     36 <221> NAME/KEY: SIGNAL
     37 <222> LOCATION: (1)...(35)
     38 <223> OTHER INFORMATION: Predicted by SignalP version 2.0
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     42 <223> OTHER INFORMATION: Dibasic peptidase cleavage site
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     49 <222> LOCATION: (113)...(114)
     50 <223> OTHER INFORMATION: Dibasic peptidase cleavage site
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    54 -35
                           -30
                                                -25
    55 Pro Trp Arg Gly Phe Leu Pro Leu Thr Leu Ala Leu Phe Val Gly Ala
                                            -10
    57 Gly His Ala Gln Arg Asp Pro Val Gly Arg Tyr Glu Pro Ala Gly Gly
                                    5
    59 Asp Ala Asn Arg Leu Arg Arg Pro Gly Gly Ser Tyr Pro Ala Ala Ala
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     61 Ala Ala Lys Val Tyr Ser Leu Phe Arg Glu Gln Asp Ala Pro Val Ala
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RAW SEQUENCE LISTING DATE: 02/24/2006
PATENT APPLICATION: US/10/519,328 TIME: 12:28:44

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62	30					35					40					45
63	Gly	Leu	Gln	Pro	Val	Glu	Arg	Ala	Gln	Pro	Gly	Trp	Gly	Ser	Pro	Arg
64	_				50					55					60	
65	Arg	Pro	Thr	Glu	Ala	Glu	Ala	Arg	Arg	Pro	Ser	Arg	Ala	Gln	Gln	Ser
66				65					70					75		
67	Arg	Arg	Val	Gln	Pro	${\tt Pro}$	Ala	Gln	Thr	Arg	Arg	Ser	Thr	${\tt Pro}$	Leu	Gly
68			80					85					90			
69	Gln	Gln	Gln	Pro	Ala	Pro	Arg	Thr	Arg	Ala	Ala	Pro	Ala	Leu	Pro	Arg
70		95					100		•			105				
71	Leu	Gly	Thr	Pro	Gln	Arg	Ser	Gly	Ala	Ala	Pro	Pro	Thr	${\tt Pro}$	Pro	Arg
72	110					115					120					125
73	Gly	Arg	Leu	Thr	Gly	Arg	Asn	Val	Cys	Gly	Gly	Gln	Cys	Cys	Pro	Gly
74					130					135					140	
75	Trp	Thr	Thr	Ala	Asn	Ser	Thr	Asn	His	Cys	Ile	Lys	Pro	Val	Cys	Glu
76				145					150					155		
77	Pro	Pro	Cys	Gln	Asn	Arg	Gly	Ser	Cys	Ser	Arg	Pro	Gln	Leu	Cys	Val
78			160					165					170			
79	Cys	Arg	Ser	Gly	Phe	Arg	Gly	Ala	Arg	Cys	Glu	Glu	Val	Ile	Pro	Asp
80		175					180					185				
81	Glu	Glu	Phe	Asp	Pro	Gln	Asn	Ser	Arg	Leu	Ala	Pro	Arg	Arg	Trp	Ala
	190					195					200					205
83	Glu	Arg	Ser	Pro	Asn	Leu	Arg	Arg	Ser	Ser	Ala	Ala	Gly	Glu	Gly	Thr
84					210					215					220	
85	Leu	Ala	Arg	Ala	Gln	Pro	Pro	Ala	Pro	Gln	Ser	Pro	Pro	Ala	Pro	Gln
86				225					230					235		
87	Ser	Pro		Ala	Gly	Thr	Leu	Ser	Gly	Leu	Ser	Gln	Thr	His	Pro	Ser
88			240					245					250			
89	Gln	Gln	His	Val	Gly	Leu		Arg	Thr	Val	Arg		His	Pro	Thr	Ala
90		255					260					265				
		Ala	Ser	Ser	Gln		Ser	Ser	Asn	Ala	Leu	Pro	Pro	Gly	Pro	
	270					275		_	_		280					285
	Leu	Glu	Gln	Arg	_	Gly	Thr	Gln	Gln		Val	Pro	Leu	Glu		Pro
94					290					295			_	_	300	_
	Ser	Ser	Pro		Gly	Leu	Asn	Leu		Glu	Lys	Ile	Lys		Ile	Lys
96	_	_	_	305					310					315		
	Ile	Val		Thr	Pro	Thr	Ile		Lys	Gln	Thr	Cys		Arg	Gly	His
98			320	_				325	_				330	_	_	
				Ser	Cys	Glu			Asp	Thr	Thr			Tyr	Ser	GIn
100		335			1	_	340		_		_,	345		_	_,	_
			His	Gly	His			Lys	s Ser	. GTZ			1 ITE	Ty	r Phe	Cys
	350		_	_	_	355			_	_	360		_	_	~7	365
		ı Ile	Pro	Cys			ı GIZ	/ GIZ	Arg			GTZ	Arg	J ASI		ı Cys
104		_	_		370		•		_	375			_	_	380	
		Cys	Pro			ı Ser	'I'nı	. GIZ			e Cys	HIS	s Let			e Pro
106		_	_	385		_	_	~-	390		_	_	_	399		
		1 Pro			J GIU	ı Pro	Pro			GT?	/ Ser	Arc			J Ala	a Leu
108			400		_	_		405			1	_	410			
				Pro	Let	і Гуз			: Thr	: Phe	Thr			ь ге	ı Sei	Asn
110)	415)				420)				425)			

RAW SEQUENCE LISTING DATE: 02/24/2006
PATENT APPLICATION: US/10/519,328 TIME: 12:28:44

Input Set : A:\SEQLIST.TXT

		_		_		_	_	_	_		_		•		•	
		Leu	Ala	Ser	Val	Asn	Pro	Ser	Leu	Val	-	Val	His	He	His	
	430				_	435			•		440					445
	Pro	Pro	Glu	Ala		Val	Gln	Ile	His		Val	Ala	Gln	Val	_	Gly
114		_	_	_	450		_	_		455	_				460	_
115	Gly	Val	Glu		Ala	Leu	Val	Glu		Ser	Val	Glu	Thr	_	Pro	Pro
116				465					470					475		
117	Pro	\mathtt{Trp}	Leu	Pro	Ala	Ser	Pro	Gly	His	Ser	Leu	Trp	Asp	Ser	Asn	Asn
118			480					485					490			
119	Ile	Pro	Ala	Arg	Ser	Gly	Glu	Pro	Pro	Arg	Pro	Leu	Pro	Pro	Ala	Ala
120		495					500					505				
121	Pro	Arg	Pro	Arg	Gly	Leu	Leu	Gly	Arg	Cys	Tyr	Leu	Asn	Thr	Val	Asn
122	510					515					520					525
123	Gly	Gln	Cys	Ala	Asn	Pro	Leu	Leu	Glu	Leu	Thr	Thr	Gln	Glu	Asp	Cys
124					530					535					540	
125	Cys	Gly	Ser	Val	Gly	Ala	Phe	Trp	Gly	Val	Thr	Leu	Cys	Ala	Pro	Cys
126				545					550					555		
127	Pro	Pro	Arg	Pro	Ala	Ser	Pro	Val	Ile	Glu	Asn	Gly	Gln	Leu	Glu	Cys
128			560					565					570			
129	Pro	Gln	Gly	Tyr	Lys	Arg	Leu	Asn	Leu	Thr	His	Cys	Gln	Asp	Ile	Asn
130		575					580					585				
131	Glu	Cys	Leu	Thr	Leu	Gly	Leu	Cys	Lys	Asp	Ala	Glu	Cys	Val	Asn	Thr
132	590					595					600					605
133	Arg	Gly	Ser	Tyr	Leu	Cys	Thr	Cys	Arg	Pro	Gly	Leu	Met	Leu	Asp	Pro
134					610					615					620	
135	Ser	Arg	Ser	Arg	Cys	Val	Ser	Asp	Lys	Ala	Ile	Ser	Met	Leu	Gln	Gly
136				625					630					635		
137	Leu	Cys	Tyr	Arg	Ser	Leu	Gly	Pro	Gly	Thr	Cys	Thr	Leu	Pro	Leu	Ala
138			640					645					650			
139	Gln	Arg	Ile	Thr	Lys	Gln	Ile	Cys	Cys	Cys	Ser	Arg	Val	Gly	Lys	Ala
140		655					660					665				
141	Trp	Gly	Ser	Glu	Cys	Glu	Lys	Cys	Pro	Leu	Pro	Gly	Thr	Glu	Ala	Phe
142	670					675					680					685
143	Arg	Glu	Ile	Cys	Pro	Ala	Gly	His	Gly	Tyr	Thr	Tyr	Ala	Ser	Ser	Asp
144					690					695					700	
145	Ile	Arg	Leu	Ser	Met	Arg	Lys	Ala	Glu	Glu	Glu	Glu	Leu	Ala	Arg	Pro
146				705					710					715		
147	Pro	Arg	Glu	Gln	Gly	${\tt Gln}$	Arg	Ser	Ser	Gly	Ala	Leu	Pro	Gly	Pro	Ala
148			720					725					730			
149	Glu	Arg	Gln	Pro	Leu	Arg	Val	Val	Thr	Asp	Thr	Trp	Leu	Glu	Ala	Gly
150		735					740					745				
151	Thr	Ile	Pro	Asp	Lys	Gly	Asp	Ser	Gln	Ala	Gly	Gln	Val	Thr	Thr	Ser
	750			_	-	755	_				760					765
		Thr	His	Ala	Pro	Ala	Trp	Val	Thr	Gly		Ala	Thr	Thr	Pro	Pro
154					770		•			775					780	
	Met	Pro	Glu	Gln		Ile	Ala	Glu	Ile	Gln	Glu	Glu	Gln	Val	Thr	Pro
156				785	2				790					795		-
	Ser	Thr	Asp		Leu	Val	Thr	Lev		Thr	Pro	Glv	Ile		Ara	Cvs
158			800					805				1	810		3	-1-
	Ala	Ala		Ala	Thr	Asn	Val		Glv	Pro	Glv	Thr		Val	Asn	Leu
			1						- + y	0	1		٠,5			~

DATE: 02/24/2006 RAW SEQUENCE LISTING TIME: 12:28:44 PATENT APPLICATION: US/10/519,328

Input Set : A:\SEQLIST.TXT
Output Set: N:\CRF4\02242006\J519328.raw

161 Pro Asp Gly Tyr Arg Cys Val Cys Ser Pro Gly Tyr Gln Leu His Pro 162 830 835 840 845 845 845 846 855 850 855 850 860 855 850 860 855 850 860 855 860 855 860 865 865 870 865 870 875 865 860 865 870 875 865 870 875 875 875 875 875 875 875 875 875 875	1	.60		815					820					825				
161 162 163 163 164 174 175			Pro		Glv	Tvr	Ara	Cvs		Cvs	Ser	Pro	Glv		Gln	Leu	His	Pro
163 Ser Gln Ala Tyr Cys Thr Asp Asp Asp Asn Glu Cys Leu Arg Asp Pro Cys					1	-1-				-2								
164				Gln	Ala	Tvr	Cvs		Asp	Asp	Asn	Glu		Leu	Ara	Asp	Pro	Cvs
165 Lys Gly Lys Gly Arg Cys Ile Asn Arg Val Gly Ser Tyr Ser Cys Phe				0		-1-	_		<u>-</u> -				-1-		5			- 2
166			Lvs	Glv	Lvs	Glv		Cvs	Ile	Asn	Ara		Glv	Ser	Tvr	Ser	Cvs	Phe
167 Cys Tyr Pro Gly Tyr Thr Leu Ala Thr Ser Gly Ala Thr Gln Glu Cys 880 885 880 885 890 895 895 990 995 995 995 995 925			-1-	U-1	-1-		5	-1 -					2		-1-		- 2	
168			Cvs	Tvr	Pro		Tvr	Thr	Leu	Ala		Ser	Glv	Ala	Thr	Gln	Glu	Cvs
169 Gln Asp Tle Asn Glu Cys Glu Gln Pro Gly Val Cys Ser Gly Gly Gln 170 895 900 905 905 905 925 926 925 925 925 925 925 925 925 925 926 925 925 926 925 925 926 925 926 925 926 925 926 925 926			0,0	-1-		U -1	-1-						1					- 2
170			Gln	Asp		Asn	Glu	Cvs	Glu		Pro	Glv	Val	Cvs		Glv	Glv	Gln
171 Cys Thr Asn Thr Glu Gly Ser Tyr His Cys Glu Cys Asp Gln Gly Tyr 172 910				_				-1 -				2				2	2	
172 910			Cvs		Asn	Thr	Glu	Glv	Ser	Tvr	His	Cvs	Glu	Cvs	asa	Gln	Glv	Tyr
173 11e Met Val Arg Lys Gly His Cys Gln Asp I le Asn Glu Cys Arg His 930			_							- 4		- 2		- 4			- 4	
174				Met	Val	Ara	Lvs	Glv	His	Cvs	Gln	Asp	Ile	Asn	Glu	Cys	Arq	His
175 Pro Gly Thr Cys Pro Asp Gly Arg Cys Val Asn Ser Pro Gly Ser Tyr 176						5		2		- 2						-4		
176			Pro	Glv	Thr	Cvs		Asp	Gly	Arq	Cys	Val	Asn	Ser	Pro	Gly	Ser	Tyr
177 Thr Cys Leu Ala Cys Glu Glu Gly Tyr Arg Gly Gln Ser Gly Ser Cys 178				2		_		•	•	~								-
178			Thr	Cvs	Leu	Ala	Cvs	Glu	Glu	Gly	Tyr	Arq	Gly	Gln	Ser	Gly	Ser	Cys
179				- 2			4				-		•			•		-
180			Val	Asp	Val	Asn	Glu	Cys	Leu	Thr	Pro	Gly	Val	Cys	Ala	His	Gly	Lys
182 990 995 1000 1005 1005 183 Glu Val Thr Ser Asp Glu Lys Gly Cys Gln Asp Val Asp Glu Cys Ala 184				-				•				_		_			-	
182 990 995 1000 1005 1005 183 Glu Val Thr Ser Asp Glu Lys Gly Cys Gln Asp Val Asp Glu Cys Ala 184	1	.81	Cys	Thr	Asn	Leu	Glu	Gly	Ser	Phe	Arg	Cys	Ser	Cys	Glu	Gln	Gly	Tyr
184			_					_				•					_	
184	1	.83	Glu	Val	Thr	Ser	Asp	Glu	Lys	Gly	Cys	Gln	Asp	Val	Asp	Glu	Cys	Ala
186							_		-		_		_					
187 Phe Ala Cys Ser Ala Cys Glu Asn Gly Tyr Trp Val Asn Glu Asp Gly 188	-	0.5	C ~ ~	3		_	_	_					_	_			_	
188 1040 1045 1050 189 Thr Ala Cys Glu Asp Leu Asp Glu Cys Ala Phe Pro Gly Val Cys Pro 190 1055 1060 1065 191 Ser Gly Val Cys Thr Asn Thr Ala Gly Ser Phe Ser Cys Lys Asp Cys 192 1070 1075 1080 1085 193 Asp Gly Gly Tyr Arg Pro Ser Pro Leu Gly Asp Ser Cys Glu Asp Val 199 1090 1095 1100 195 Asp Glu Cys Glu Asp Pro Gln Ser Ser Cys Leu Gly Gly Glu Cys Lys 196 1105 1110 1115 197 Asn Thr Val Gly Ser Tyr Gln Cys Leu Cys Pro Gln Gly Phe Gln Leu 198 1120 1125 1130 199 Ala Asn Gly Thr Val Cys Glu Asp Val Asn Glu Cys Met Gly Glu Glu Glu 1145 1145 201 His Cys Ala Pro His Gly Glu Cys Leu Asn Ser His Gly Ser Phe Phe 202 1155 1160 1165 203 Cys Leu Cys Ala Pro Gly Phe Val Ser Ala Glu Gly Gly Thr Ser Cys 1170 1175 1180 205 Gln Asp Val Asp Glu Cys Ala Thr Thr Asp Pro Cys Val Gly Gly His 1195 1195 206 1185 1190 1195 207 Cys Val Asn Thr Glu Gly Ser Phe Asn Cys Leu Cys Glu Thr Gly Phe	1	.00	ser	Arg	Ala	ser	Cys	Pro	Thr	Gly	Leu	Cys	Leu	Asn	Thr	Glu	Gly	Ser
189 Thr Ala Cys Glu Asp Leu Asp Glu Cys Ala Phe Pro Gly Val Cys Pro 190			ser	arg	Ala		_	Pro	Thr	Gly		_	Leu	Asn	Thr			Ser
190	1	.86		_		102	5			_	1030)				1039	5	
191 Ser Gly Val Cys Thr Asn Thr Ala Gly Ser Phe Ser Cys Lys Asp Cys 192 1070	1	.86 .87		_	Cys	1025 Ser	5			Asn	1030 Gly)			Asn	1039 Glu	5	
192 1070	1 1 1	.86 .87 .88	Phe	Ala	Cys	102! Ser	Ala	Cys	Glu	Asn 1045	1030 Gly	Ťyr	Trp	Val	Asn 1050	1039 Glu O	ā Asp	Gly
193 Asp Gly Gly Tyr Arg Pro Ser Pro Leu Gly Asp Ser Cys Glu Asp Val 194	1 1 1	.86 .87 .88 .89	Phe	Ala Ala	Cys 1040 Cys	102! Ser	Ala	Cys	Glu Asp	Asn 1045 Glu	1030 Gly	Ťyr	Trp	Val Pro	Asn 1050 Gly	1039 Glu O	ā Asp	Gly
194	1 1 1 1	.86 .87 .88 .89	Phe Thr	Ala Ala 105	Cys 1040 Cys	102! Ser) Glu	Ala Asp	Cys Leu	Glu Asp 1060	Asn 1045 Glu	1030 Gly G Cys	Ťyr Ala	Trp Phe	Val Pro 106	Asn 1050 Gly	1039 Glu) Val	Asp Cys	Gly Pro
195 Asp Glu Cys Glu Asp Pro Gln Ser Ser Cys Leu Gly Gly Glu Cys Lys 196	1 1 1 1 1	.86 .87 .88 .89 .90	Phe Thr Ser	Ala Ala 1059 Gly	Cys 1040 Cys 5 Val	102! Ser) Glu Cys	Ala Asp Thr	Cys Leu Asn 1079	Glu Asp 1060 Thr	Asn 1045 Glu) Ala	1030 Gly Cys Cys	Tyr Ala Ser	Trp Phe Phe 1080	Val Pro 1069 Ser	Asn 1050 Gly Cys	1039 Glu Val Lys	Asp Cys Asp	Gly Pro Cys 1085
196	1 1 1 1 1	.86 .87 .88 .89 .90	Phe Thr Ser	Ala Ala 1059 Gly	Cys 1040 Cys 5 Val	102! Ser) Glu Cys	Ala Asp Thr	Cys Leu Asn 1079	Glu Asp 1060 Thr	Asn 1045 Glu) Ala	1030 Gly Cys Cys	Tyr Ala Ser Gly	Trp Phe Phe 1080	Val Pro 1069 Ser	Asn 1050 Gly Cys	1039 Glu Val Lys	Asp Cys Asp	Gly Pro Cys 1085
197 Asn Thr Val Gly Ser Tyr Gln Cys Leu Cys Pro Gln Gly Phe Gln Leu 198	1 1 1 1 1 1 1	.86 .87 .88 .89 .90 .91 .92	Phe Thr Ser 1070 Asp	Ala Ala 1059 Gly Gly	Cys 1040 Cys Val Gly	102! Ser) Glu Cys	Ala Asp Thr Arg	Cys Leu Asn 1079 Pro	Glu Asp 1060 Thr S	Asn 1045 Glu) Ala Pro	1030 Gly Cys Cys	Tyr Ala Ser Gly 109	Trp Phe Phe Asp	Val Pro 1069 Ser Ser	Asn 1050 Gly Cys	1039 Glu Val Lys Glu	Asp Cys Asp Asp	Gly Pro Cys 1085 Val
198	1 1 1 1 1 1 1	.86 .87 .88 .89 .90 .91 .92	Phe Thr Ser 1070 Asp	Ala Ala 1059 Gly Gly	Cys 1040 Cys Val Gly	102! Ser Olu Cys Tyr	Ala Asp Thr Arg 1090	Cys Leu Asn 1079 Pro	Glu Asp 1060 Thr S	Asn 1045 Glu) Ala Pro	Cys Gly Leu Ser	Tyr Ala Ser Gly 1099	Trp Phe Phe Asp	Val Pro 1069 Ser Ser	Asn 1050 Gly Cys	Olu Val Lys Glu Glu	Asp Cys Asp Asp 1100	Gly Pro Cys 1085 Val
199 Ala Asn Gly Thr Val Cys Glu Asp Val Asn Glu Cys Met Gly Glu Glu 200	1 1 1 1 1 1 1 1	.86 .87 .88 .89 .90 .91 .92 .93 .95	Phe Thr Ser 1070 Asp	Ala Ala 1059 Gly Gly Gly	Cys 1040 Cys Val Gly	Ser Glu Cys Tyr Glu 1109	Ala Asp Thr Arg 1090 Asp	Leu Asn 1075 Pro	Asp 1060 Thr Ser	Asn 1045 Glu) Ala Pro	Gly Cys Gly Leu Ser	Tyr Ala Ser Gly 1099 Cys	Trp Phe Phe 1080 Asp Leu	Val Pro 1069 Ser Ser Gly	Asn 1050 Gly Cys Cys	Olu Val Lys Glu Glu Lys Glu Glu 1119	Asp Cys Asp Asp 1100 Cys	Gly Pro Cys 1085 Val Lys
200 1135 1140 1145 201 His Cys Ala Pro His Gly Glu Cys Leu Asn Ser His Gly Ser Phe Phe 202 1150 1155 1160 1165 203 Cys Leu Cys Ala Pro Gly Phe Val Ser Ala Glu Gly Gly Thr Ser Cys 204 1170 1175 1180 205 Gln Asp Val Asp Glu Cys Ala Thr Thr Asp Pro Cys Val Gly Gly His 206 1185 1190 1195 207 Cys Val Asn Thr Glu Gly Ser Phe Asn Cys Leu Cys Glu Thr Gly Phe	1 1 1 1 1 1 1 1	.86 .87 .88 .89 .90 .91 .92 .93 .95	Phe Thr Ser 1070 Asp	Ala Ala 1059 Gly Gly Gly	Cys 1040 Cys Val Gly	Ser Glu Cys Tyr Glu 1109	Ala Asp Thr Arg 1090 Asp	Leu Asn 1075 Pro	Asp 1060 Thr Ser	Asn 1045 Glu Ala Pro Ser	Cys Gly Leu Ser 1110	Tyr Ala Ser Gly 1099 Cys	Trp Phe Phe 1080 Asp Leu	Val Pro 1069 Ser Ser Gly	Asn 1050 Gly Cys Cys Gly	Olu Val Lys Glu Glu Lys Glu Glu 1115	Asp Cys Asp Asp 1100 Cys	Gly Pro Cys 1085 Val Lys
201 His Cys Ala Pro His Gly Glu Cys Leu Asn Ser His Gly Ser Phe Phe 202 1150	1 1 1 1 1 1 1 1 1	.86 .87 .88 .90 .91 .93 .94 .95 .96 .97	Phe Thr Ser 1070 Asp Asp	Ala Ala 1059 Gly Gly Glu Thr	Cys 1040 Cys Val Gly Cys Val 1120	Glu Cys Tyr Glu 1109	Ala Asp Thr Arg 1090 Asp Ser	Cys Leu Asn 1079 Pro Pro	Asp 1060 Thr Ser Gln	Asn 1045 Glu) Ala Pro Ser Cys 1125	Gly Cys Gly Leu Ser 1110	Tyr Ala Ser Gly 1099 Cys Cys	Trp Phe Phe 1080 Asp Leu Pro	Pro 1069 Ser Ser Gly	Asn 1050 Gly Cys Cys Gly Gly	O TOUR THE PHE	Asp Cys Asp 1100 Cys Gln	Gly Pro Cys 1085 Val Lys Lys
202 1150	1 1 1 1 1 1 1 1 1	.86 .87 .88 .90 .91 .92 .93 .94 .95 .96 .97	Phe Thr Ser 1070 Asp Asp	Ala Ala 1059 Gly Gly Glu Thr	Cys 1040 Cys Val Gly Cys Val 1120 Gly	Glu Cys Tyr Glu 1109	Ala Asp Thr Arg 1090 Asp Ser	Cys Leu Asn 1079 Pro Pro	Asp 1060 Thr Ser Gln Gln	Asn 1045 Glu) Ala Pro Ser Cys 1125 Asp	Gly Cys Gly Leu Ser 1110	Tyr Ala Ser Gly 1099 Cys Cys	Trp Phe Phe 1080 Asp Leu Pro	Val Pro 1069 Ser Ser Gly Gln Cys	Asn 1050 Gly Cys Cys Gly Gly 1130 Met	O TOUR THE PHE	Asp Cys Asp 1100 Cys Gln	Gly Pro Cys 1085 Val Lys Lys
203 Cys Leu Cys Ala Pro Gly Phe Val Ser Ala Glu Gly Gly Thr Ser Cys 204 1170 1175 1180 205 Gln Asp Val Asp Glu Cys Ala Thr Thr Asp Pro Cys Val Gly Gly His 206 1185 1190 1195 207 Cys Val Asn Thr Glu Gly Ser Phe Asn Cys Leu Cys Glu Thr Gly Phe	11 11 11 11 11 11 11 12	.86 .87 .88 .89 .91 .92 .93 .94 .95 .96 .97 .98	Phe Thr Ser 1070 Asp Asp Asn Ala	Ala Ala 1059 Gly Gly Glu Thr Asn 1139	Cys 1040 Cys Val Gly Cys Val 1120 Gly	Glu Cys Tyr Glu 1109 Gly Thr	Ala Asp Thr Arg 1090 Asp Ser Val	Cys Leu Asn 1079 Pro Tyr Cys	Asp 1060 Thr Ser Gln Gln Glu 1140	Asn 1045 Glu) Ala Pro Ser Cys 1125 Asp	Cys Cly Leu Ser 1110 Leu Val	Tyr Ala Ser Gly 1099 Cys Cys Asn	Trp Phe Phe 1080 Asp Leu Pro Glu	Val Pro 1069 Ser Ser Gly Gln Cys 1149	Asn 1050 Gly Cys Cys Gly Gly 1130 Met	Olu Clu Clu Clu Clu Clu 1119 Phe Cly Cly	Asp Cys Asp 1100 Cys Gln Glu	Gly Pro Cys 1085 Val Lys Lys Leu Glu
204 1170 1175 1180 205 Gln Asp Val Asp Glu Cys Ala Thr Thr Asp Pro Cys Val Gly Gly His 206 1185 1190 1195 207 Cys Val Asn Thr Glu Gly Ser Phe Asn Cys Leu Cys Glu Thr Gly Phe	11 11 11 11 11 11 11 12 22	.86 .87 .88 .89 .91 .92 .93 .94 .95 .96 .97 .98 .99	Phe Thr Ser 1070 Asp Asp Asn Ala His	Ala Ala 1059 Gly Gly Glu Thr Asn 1139 Cys	Cys 1040 Cys Val Gly Cys Val 1120 Gly	Glu Cys Tyr Glu 1109 Gly Thr	Ala Asp Thr Arg 1090 Asp Ser Val	Cys Leu Asn 1075 Pro Pro Tyr Cys Gly	Asp 1060 Thr Ser Gln Glu 1140 Glu	Asn 1045 Glu) Ala Pro Ser Cys 1125 Asp	Cys Cly Leu Ser 1110 Leu Val	Tyr Ala Ser Gly 1099 Cys Cys Asn	Trp Phe Phe 1080 Asp Leu Pro Glu Ser	Val Pro 1069 Ser Ser Gly Gln Cys 1149 His	Asn 1050 Gly Cys Cys Gly Gly 1130 Met	Olu Clu Clu Clu Clu Clu 1119 Phe Cly Cly	Asp Cys Asp 1100 Cys Gln Glu	Gly Pro Cys 1085 Val Lys Lys Leu Glu Phe
205 Gln Asp Val Asp Glu Cys Ala Thr Thr Asp Pro Cys Val Gly Gly His 206 1185 1190 1195 207 Cys Val Asn Thr Glu Gly Ser Phe Asn Cys Leu Cys Glu Thr Gly Phe	11 11 11 11 11 11 11 12 22	.86 .87 .88 .89 .91 .92 .93 .94 .95 .96 .97 .98 .99 .90 .91	Phe Thr Ser 1070 Asp Asp Asn Ala His 1150	Ala Ala 1059 Gly Gly Glu Thr Asn 1139 Cys	Cys 1040 Cys Val Gly Cys Val 1120 Gly Ala	Glu Cys Tyr Glu 1109 Gly Thr	Ala Asp Thr Arg 1090 Asp Ser Val	Cys Leu Asn 1075 Pro Pro Tyr Cys Gly 1155	Glu Asp 1060 Thr Ser Gln Glu 1140 Glu	Asn 1045 Glu) Ala Pro Ser Cys 1125 Asp)	Cys Cys Cly Leu Ser 1110 Leu Val	Tyr Ala Ser Gly 1099 Cys Cys Asn Asn	Trp Phe Phe 1080 Asp Leu Pro Glu Ser	Val Pro 1069 Ser Ser Gly Gln Cys 1149 His	Asn 1050 Gly Cys Cys Gly 1130 Met	Olu Clu Clu Clu Clu Clu Clu Clu Clu Clu C	Asp Cys Asp 1100 Cys Gln Glu Phe	Cys 1085 Val Lys Leu Glu Phe 1165
206 1185 1190 1195 207 Cys Val Asn Thr Glu Gly Ser Phe Asn Cys Leu Cys Glu Thr Gly Phe	11 11 11 11 11 11 11 12 22 22	.86 .87 .88 .89 .91 .92 .93 .94 .95 .96 .97 .98 .99 .90 .90 .90 .90 .90 .90 .90 .90 .90	Phe Thr Ser 1070 Asp Asp Asn Ala His 1150	Ala Ala 1059 Gly Gly Glu Thr Asn 1139 Cys	Cys 1040 Cys Val Gly Cys Val 1120 Gly Ala	Glu Cys Tyr Glu 1109 Gly Thr	Ala Asp Thr Arg 1090 Asp Ser Val His	Cys Leu Asn 1079 Pro Pro Cys Gly 1159 Gly	Glu Asp 1060 Thr Ser Gln Glu 1140 Glu	Asn 1045 Glu) Ala Pro Ser Cys 1125 Asp)	Cys Cys Cly Leu Ser 1110 Leu Val	Tyr Ala Ser Gly 1099 Cys Cys Asn Asn	Phe Phe 1080 Asp Leu Pro Glu Ser 1160 Glu	Val Pro 1069 Ser Ser Gly Gln Cys 1149 His	Asn 1050 Gly Cys Cys Gly 1130 Met	Olu Clu Clu Clu Clu Clu Clu Clu Clu Clu C	Asp Cys Asp 1100 Cys Gln Glu Phe Ser	Gly Pro Cys 1085 Val Lys Leu Glu Phe 1165 Cys
207 Cys Val Asn Thr Glu Gly Ser Phe Asn Cys Leu Cys Glu Thr Gly Phe	11 11 11 11 11 11 12 22 22 22 22	.86 .87 .88 .89 .91 .92 .93 .94 .95 .96 .97 .98 .99 .90 .90 .90 .90 .90 .90 .90 .90 .90	Phe Thr Ser 1070 Asp Asp Asn Ala His 1150 Cys	Ala Ala 1059 Gly Glu Thr Asn 1139 Cys Leu	Cys 1040 Cys Val Gly Cys Val 1120 Gly Ala	Glu Cys Tyr Glu 1109 Gly Thr Pro	Ala Asp Thr Arg 1090 Asp Ser Val His Pro	Cys Leu Asn 1079 Pro Tyr Cys Gly 1159 Gly	Asp 1060 Thr Ser Gln Glu 1140 Glu Phe	Asn 1045 Glu) Ala Pro Ser Cys 1125 Asp) Cys	Cys Cys Cly Leu Ser 1110 Val Leu Ser	Tyr Ala Ser Gly 1099 Cys Cys Asn Asn Ala 1179	Phe Phe 1080 Asp Leu Pro Glu Ser 1160 Glu	Val Pro 1069 Ser Ser Gly Gln Cys 1149 His	Asn 1050 Gly Cys Cys Gly 1130 Met Gly Gly	Oly Ser	Asp Cys Asp 1100 Cys Gln Glu Phe Ser	Gly Pro Cys 1085 Val Lys Leu Glu Phe 1165 Cys
	11 11 11 11 11 11 12 22 22 22 22	.86 .87 .88 .89 .91 .92 .93 .94 .95 .96 .97 .98 .99 .90 .90 .90 .90 .90 .90 .90 .90 .90	Phe Thr Ser 1070 Asp Asp Asn Ala His 1150 Cys	Ala Ala 1059 Gly Glu Thr Asn 1139 Cys Leu	Cys 1040 Cys Val Gly Cys Val 1120 Gly Ala	Glu Cys Tyr Glu 1109 Gly Thr Pro Ala Asp	Ala Asp Thr Arg 1090 Asp Ser Val His Pro 1170 Glu	Cys Leu Asn 1079 Pro Tyr Cys Gly 1159 Gly	Asp 1060 Thr Ser Gln Glu 1140 Glu Phe	Asn 1045 Glu) Ala Pro Ser Cys 1125 Asp) Cys	Cys Cys Cly Leu Ser 1110 Leu Val Leu Ser	Tyr Ala Ser Gly 1099 Cys Cys Asn Asn Ala 1179 Asp	Phe Phe 1080 Asp Leu Pro Glu Ser 1160 Glu	Val Pro 1069 Ser Ser Gly Gln Cys 1149 His	Asn 1050 Gly Cys Cys Gly 1130 Met Gly Gly	IO39 Glu Val Lys Glu Glu 1119 Phe Gly Ser Thr	Asp Cys Asp 1100 Cys Gln Glu Phe Ser 1180 Gly	Gly Pro Cys 1085 Val Lys Leu Glu Phe 1165 Cys
208 1200 1205 1210	11 11 11 11 11 11 12 22 22 22 22 22	.86 .87 .88 .89 .91 .92 .93 .94 .95 .96 .97 .98 .99 .90 .90 .90 .90 .90 .90 .90 .90 .90	Phe Thr Ser 1070 Asp Asp Asn Ala His 1150 Cys Gln	Ala Ala 1059 Gly Gly Glu Thr Asn 1139 Cys Leu Asp	Cys 1040 Cys Val Gly Cys Val 1120 Gly Ala Cys Val	Glu Cys Tyr Glu 1109 Gly Thr Pro Ala Asp	Ala Asp Thr Arg 1090 Asp Ser Val His Pro 1170 Glu	Cys Leu Asn 1079 Pro Pro Cys Gly 1159 Gly Cys	Asp 1060 Thr Ser Gln Glu 1140 Glu Phe	Asn 1045 Glu) Ala Pro Ser Cys 1125 Asp) Cys Val	Cys Cys Cly Leu Ser 1110 Leu Ser Thr	Tyr Ala Ser Gly 1099 Cys Cys Asn Asn Ala 1179 Asp	Phe Phe 1080 Asp Leu Pro Glu Ser 1160 Glu Pro	Val Pro 1065 Ser Ser Gly Gln Cys 1145 His Gly Cys	Asn 1050 Gly Cys Cys Gly 1130 Met Gly Gly Val	IO39 Glu Val Lys Glu Glu 1119 Phe Cly Ser Thr Gly 1199	Asp Cys Asp 1100 Cys Gln Glu Phe Ser 1180 Gly	Cys 1085 Val Lys Leu Glu Phe 1165 Cys
	11 11 11 11 11 11 11 12 22 22 22 22 22 2	.86 .87 .88 .89 .91 .92 .93 .94 .95 .97 .98 .99 .90 .90 .90 .90 .90 .90 .90 .90 .90	Phe Thr Ser 1070 Asp Asp Asn Ala His 1150 Cys Gln	Ala Ala 1059 Gly Gly Glu Thr Asn 1139 Cys Leu Asp	Cys 1040 Cys Val Gly Cys Val 1120 Gly Ala Cys Val Asn	Glu Cys Tyr Glu 1109 Gly Thr Pro Ala Asp 1189 Thr	Ala Asp Thr Arg 1090 Asp Ser Val His Pro 1170 Glu	Cys Leu Asn 1079 Pro Pro Cys Gly 1159 Gly Cys	Asp 1060 Thr Ser Gln Glu 1140 Glu Phe	Asn 1045 Glu Ala Pro Ser Cys 1125 Asp Cys Val Thr	Cys Cys Cys Cys Leu Ser 1110 Leu Ser Thr 1190 Asn	Tyr Ala Ser Gly 1099 Cys Cys Asn Asn Ala 1179 Asp	Phe Phe 1080 Asp Leu Pro Glu Ser 1160 Glu Pro	Val Pro 1065 Ser Ser Gly Gln Cys 1145 His Gly Cys	Asn 1050 Gly Cys Cys Gly 1130 Met Gly Gly Val	IO39 Glu Val Lys Glu Glu 1119 Phe Cly Ser Thr Gly 1199 Thr	Asp Cys Asp 1100 Cys Gln Glu Phe Ser 1180 Gly	Cys 1085 Val Lys Leu Glu Phe 1165 Cys

RAW SEQUENCE LISTING DATE: 02/24/2006 PATENT APPLICATION: US/10/519,328 TIME: 12:28:44

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	1230 Gly		Tvr	Ara	Cvs			Glv	Cvs	Gln			Phe	His	Met	
214	OLY	DCI	- 7 -	*****	1250		пси	Cly	Cyb	1259		Cly	1110		1260	
215	Pro .	Asn	Gly	Asp	Cys	Ile	Asp	Ile	Asp	Glu	Cys	Ala	Asn	Asp	Thr	Met
216				1269	_				1270					1275		
	Cys	Gly			Gly	Phe	Cys			Thr	Asp	Gly			Arg	Cys
218	T	a	1280		a1	Dha	~1	1285		Dwa	Com	~1	1290		Crra	17n]
219	Leu	cys 1295		GIN	GIY	Pne	1300		ser	PIO	ser	130	_	Asp	Cys	vai
	Asp			G111	Cve	Glu			T.011	Δla	₩a1			Δla	Δla	T.e.11
	1310		ASII	GIU	Cys	1319		Mec	Бец	AIA	1320		Gry	AIG	AIG	1325
	Cys		Δsn	Val	Glu			Phe	T.e.i	Cvs			Δla	Ser	Asn	
224	Cyb .	OI u	11011	Vul	1330		DCI	1110	Leu	1339		Cyb		JCI	1340	
	Glu	Glu	Tvr	asA			Glu	Glv	His			Pro	Arq	Gly		
226			-	1345				4	1350	_	_			1355		-
227	Gly	Gln	Ser	Met	Ser	Glu	Ala	Pro	Thr	Gly	Asp	His	Ala	Pro	Ala	Pro
228			1360)				1365	5				1370)		
229	Thr 2	Arg	Met	Asp	Cys	Tyr	Ser	Gly	Gln	Lys	Gly	His	Ala	${\tt Pro}$	Cys	Ser
230	:	1375	5				1380)				1389	5			
231	Ser	Val	Leu	Gly	Arg	Asn	Thr	Thr	Gln	Ala	Glu	Cys	Cys	Cys	Thr	Gln
	1390					1395					1400					1405
	Gly A	Ala	Ser	Trp	_	_	Ala	Cys	Asp		_	Pro	Ser	Glu		
234		~-3		_	1410		_	_	1	1415		~7	_		1420	
	Ala	GIu	Phe			IIe	Cys	Pro		_	Lys	GIY	Tyr			vaı
236	Glu	C1.,	ת דת	1425		Dho	G117	Gl n	1430		Тагх	Thr	7 cn	1435		Glu
238	Giu ,	GIY	1440	_	1111	FIIC	Gry	1445		Mec	ı yı	1111	1450		лор	Olu
	Cys '	Val			Glv	Pro	Glv			Pro	Asn	Glv			Leu	Asn
240		1455			1		1460		-1-			1469		-1-		
241	Thr '	Val	Pro	Gly	Tyr	Val	Cys	Leu	Cys	Asn	Pro	Gly	Phe	His	Tyr	Asp
242	1470					1475	5				1480)				1485
243	Ala	Ser	His	Lys	Lys	Cys	Glu	Asp	His	Asp	Glu	Cys	Gln	Asp	Leu	Ala
244					1490					1499					1500	
245	Cys	Glu	Asn	Gly	Glu	Cys	Val	Asn	Thr	Glu	Gly	Ser	Phe	His	Cys	Phe
246				1509					1510					1515		
247	Cys				Leu	Thr				Ser	Gln				Met	Asn
248			1520			-		1525			•		1530			_
	Ser '			Ser	Thr	Glu			Pro	Asp	His			His	Met	Asp
250		1535 ~		_	_		1540		_		_	1545			.	
	Ile	Cys	Trp	гàг	ьуѕ			Asn	Asp	val	_		GIU	Pro	ьеи	_
252	1550				_,	1555		~1	C	C	1560		7 ~~	C1	C1	1565
		TT	7	mb				17111	CVS	CVS	CVS	GIII	ASD	(7 L V	(-	Ala
	Gly	His	Arg	Thr			1111		-					1		
254	Gly 1				1570)				1575	5				1580)
254 255				Gln	1570 Cys)			Pro	1575 Pro	5			Glu	1580 Val)
254 255 256	Gly 1	Ser	Gln	Gln 1585	1570 Cys 5) Ala	Leu	Cys	Pro 1590	1575 Pro)	Arg	Ser	Ser	Glu 1595	1580 Val	Tyr

VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/519,328

TIME: 12:28:45

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\02242006\J519328.raw

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